

AL-LED-M1-X-140-8XX-NM

LED AREA LIGHT FIXTURES

PROJECT	
TYPE	
CATALOG #	



Compact 140W High-Performance LED Area Light,
120–277V Input, Bronze Housing,
Multiple Mounting, Optics, and Control options

PRODUCT FEATURES

- Compact, low-profile design delivers high-performance illumination and improves application site aesthetics
- Heavy-duty, die-cast aluminum housing with ample heat sinking for enhanced thermal performance
- True U0 design for Dark Sky compliant performance eliminates undesirable sky glow
- Integrated NEMA/ANSI C136.10 3-pin twist-lock receptacle with shorting cap, standard on all fixtures, simplifies ordering requirements for photo control needs
- Precision-crafted optics, available with type II, III, IV, and V patterns, to meet diverse requirements from general purpose to specification-grade applications
- Integral latch design for hassle-free, hinged access to driver compartment
- Four contractor-friendly mounting options available (sold separately): slip fitter mount, adjustable pole mount for square and round poles, fixed pole mount for square and round poles, and trunnion mount
- Bi-level occupancy sensor and twist-lock photocell accessories available
- Reversible glare shield available, suitable for backside (house-side) or frontside (street-side) shielding
- Powered by 0–10V dimming LED driver featuring 12V AUX power tap, 6kV surge protection
- Ambient operating temperature: –40°C/–40°F to 50°C/122°F
- UL Certified for wet locations, IP65
- 0–10V dimming, 10% min
- Power factor: >0.95
- THD: <20%
- LED chip lifetime: L70 >100,000 hrs @ 25°C/77°F ambient fixture temp
- Meets FCC Part 15, Part B, Class A standards for conducted and radiated emissions



ELECTRICAL SPECIFICATIONS

Catalog Number	Wattage	Lumens	Efficacy	Dimming	Color Temp	CRI	Dist Type*	Input Voltage	Rated Life	Legacy Equivalent	Housing Color**	Additional Feature
AL-LED-M1-3-140-840-NM	140W	19,320 lm	138 lm/W	0–10V	4000K	>80	III	120–277V	50,000 hrs	400W	Bronze	10kV external surge protection included
AL-LED-M1-3-140-850-NM		19,600 lm	140 lm/W		5000K		III					
AL-LED-M1-5-140-840-NM		19,460 lm	139 lm/W		4000K		V					
AL-LED-M1-5-140-850-NM		19,740 lm	141 lm/W		5000K		V					

* Fixtures with Type 2 (II) and Type 4 (IV) optics are available and assembled to order. Lead times may apply. Please see catalog number breakdown for full ordering code details.

** Fixtures (and mounts) with alternate housing colors are available and made to order. Extended lead times apply. Please see catalog number breakdown for full ordering code details.

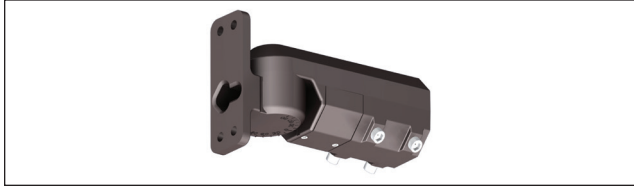
PROJECT	
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MOUNTING BRACKET OPTIONS (SOLD SEPARATELY)

SLIP FITTER MOUNT

Fits 2 3/8" tenon; Bronze

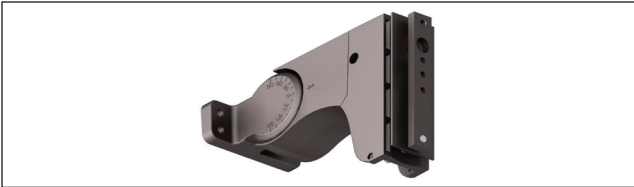
Catalog Number	UPC	Easy Code
KT-ALED-SF-1-KIT	843654131641	JRH-74



ADJUSTABLE POLE MOUNT

For round or square pole; Bronze

Catalog Number	UPC	Easy Code
KT-ALED-PMA-1-KIT	843654131634	DAQ-87



FIXED POLE MOUNT

For round or square pole; Bronze

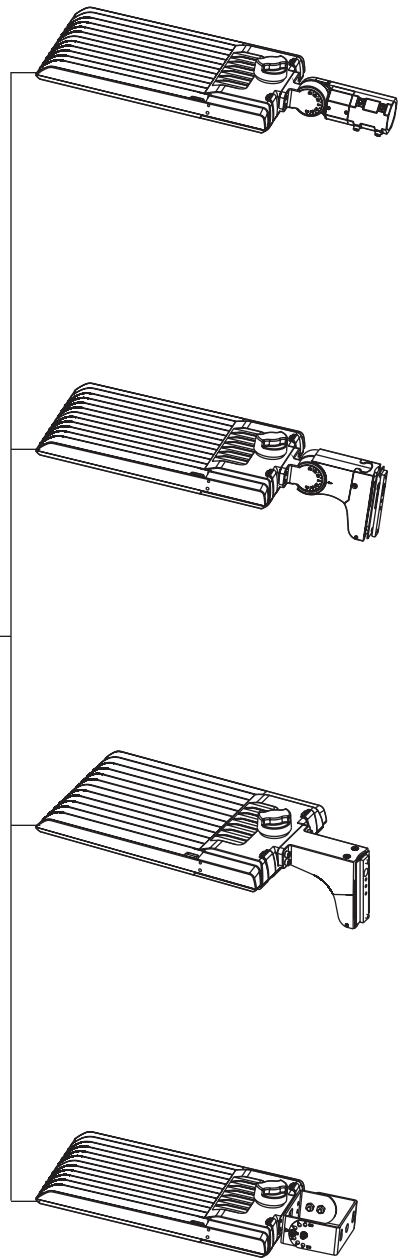
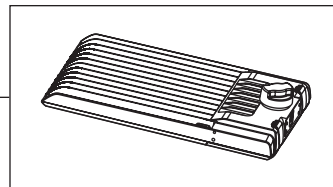
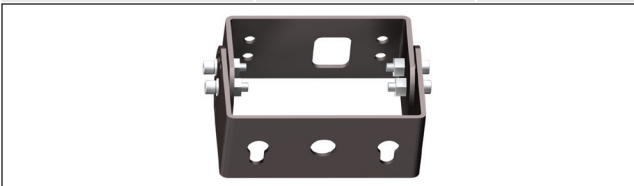
Catalog Number	UPC	Easy Code
KT-ALED-PM-1-KIT	843654131627	QVG-29



TRUNNION MOUNT

Bronze

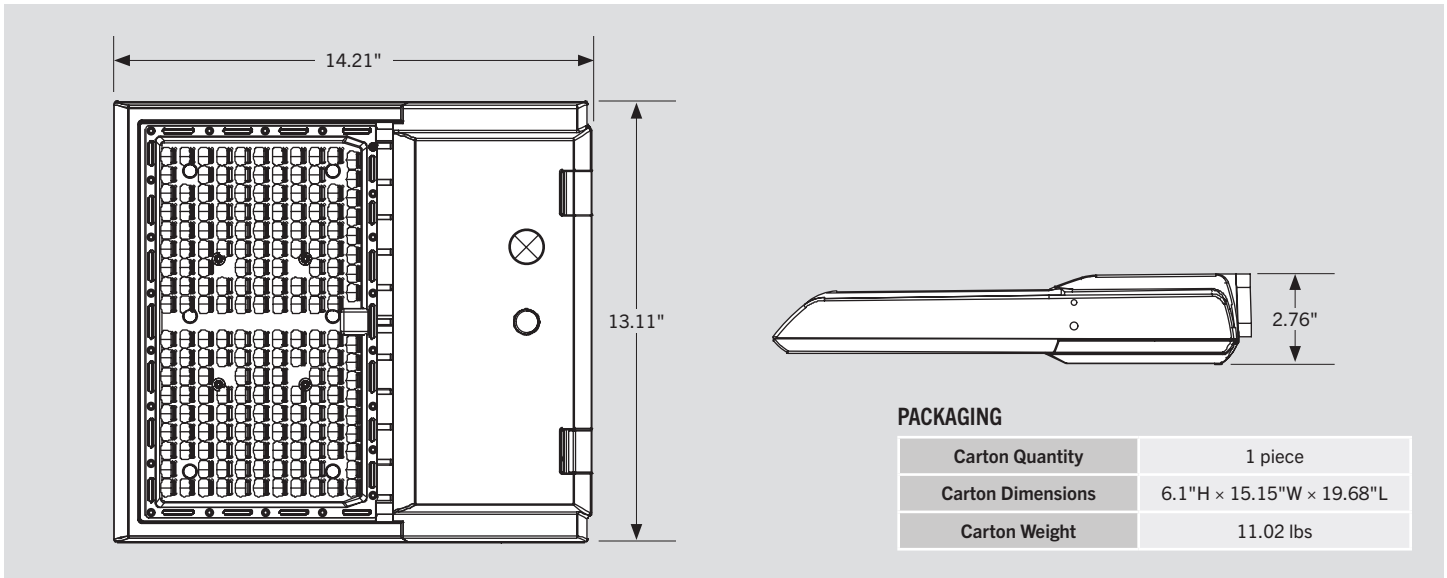
Catalog Number	UPC	Easy Code
KT-ALED-TM-1-KIT	843654131658	GTH-37



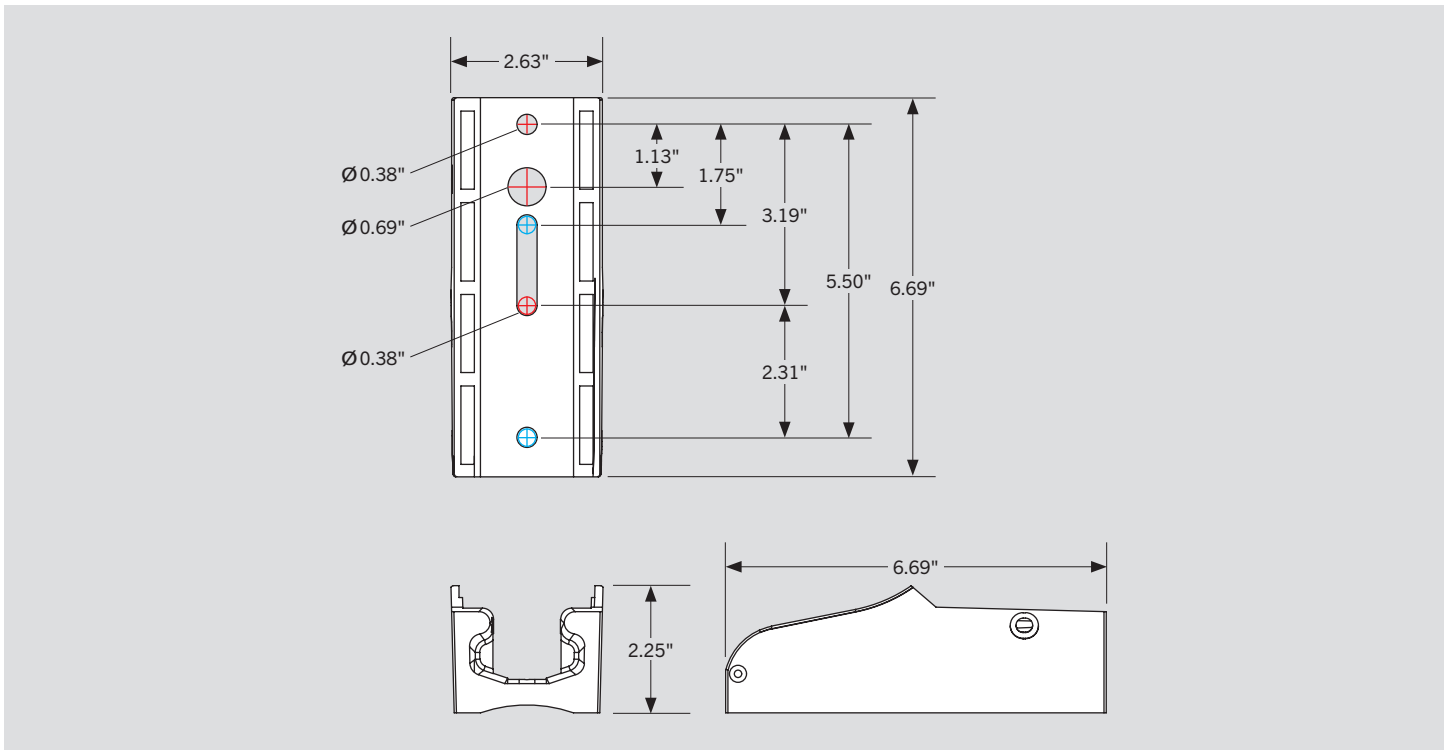
PROJECT	
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PHYSICAL SPECIFICATIONS

LED AREA LIGHT FIXTURE

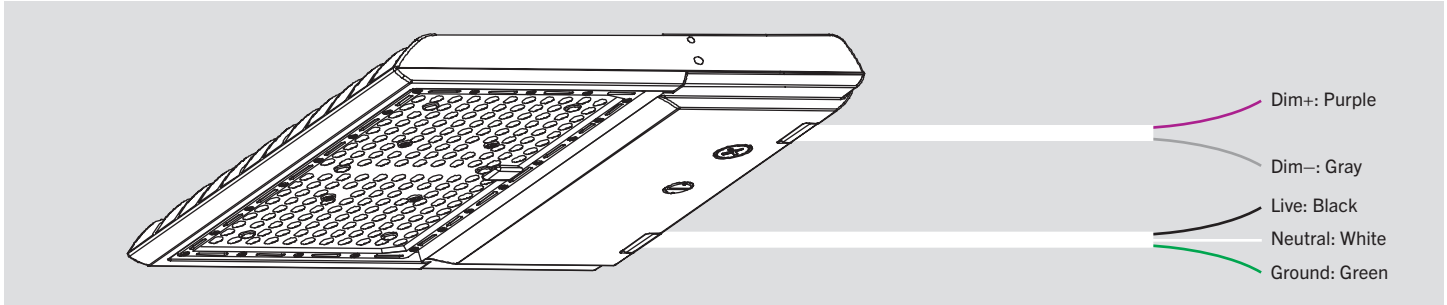


POLE MOUNT (ADJUSTABLE OR FIXED) DRILLING HOLES



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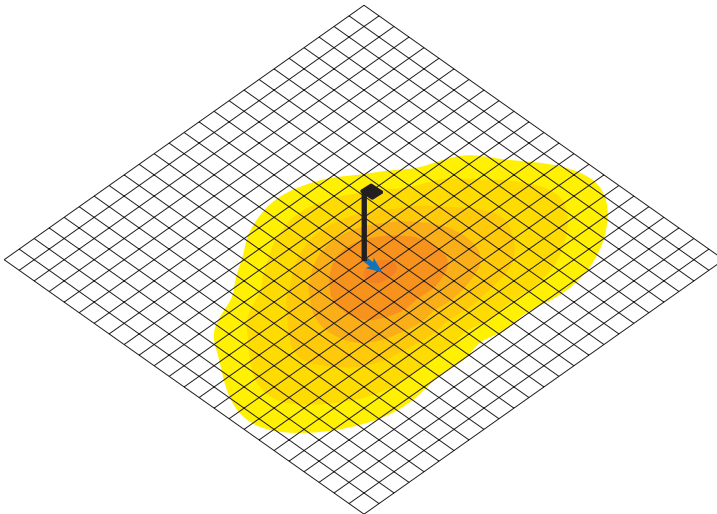
WIRING DIAGRAM



LIGHT DISTRIBUTION PATTERN

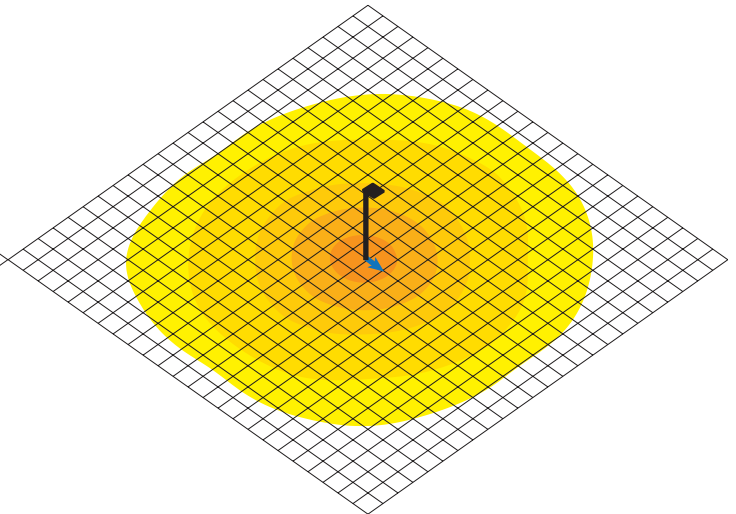
TYPE 3 (III)

Pole-mount view from above; Area light mounted at 30'

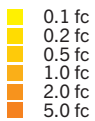


TYPE 5 (V)

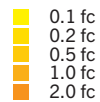
Pole-mount view from above; Area light mounted at 30'



- Photometric layout for general reference only
- Grid dimension: 10 × 10 sq ft



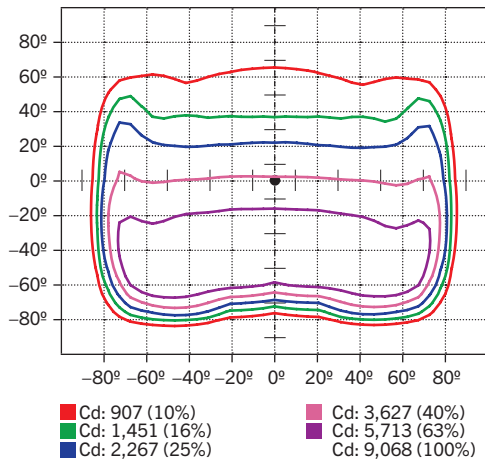
- Photometric layout for general reference only
- Grid dimension: 10 × 10 sq ft



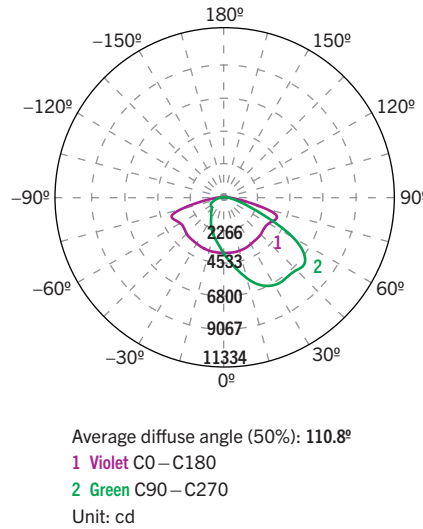
PROJECT	
TYPE	
CATALOG #	

PHOTOMETRIC SPECIFICATIONS (TYPE 3 [III])

ISOCANDELA PLOT



LUMINOUS INTENSITY DISTRIBUTION



FLUX DISTRIBUTION

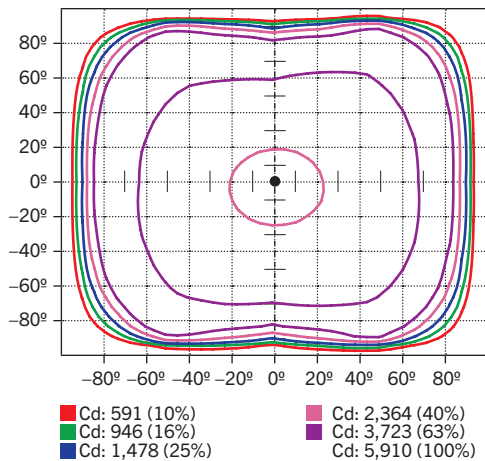
Zone	Lumens	% Luminaire
Forward Light	15,114 lm	77.8%
0°–30°	2,165 lm	11.2%
30°–60°	7,491 lm	38.6%
60°–80°	5,044 lm	26.1%
80°–90°	414 lm	2.1%
Back Light	4,301 lm	22.2%
0°–30°	1,151 lm	5.9%
30°–60°	1,961 lm	10.1%
60°–80°	1,090 lm	5.6%
80°–90°	98 lm	0.5%
Up Light	0 lm	0.0%
90°–100°	0 lm	0.0%
100°–180°	0 lm	0.0%

BUG* Rating	
Asymmetrical Luminaire Types	
Type I, II, III, IV	B3 U0 G3
Quadrilateral Symmetrical Luminaire Types	
Type V, Area Light	B3 U0 G3

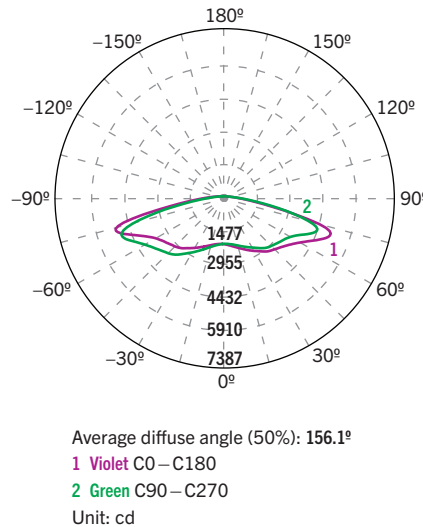
* Backlight, Uplight, Glare

PHOTOMETRIC SPECIFICATIONS (TYPE 5 [V])

ISOCANDELA PLOT



LUMINOUS INTENSITY DISTRIBUTION



FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
Forward Light	9,388 lm	48.8%
0°–30°	987 lm	5.1%
30°–60°	3,501 lm	18.2%
60°–80°	4,167 lm	21.6%
80°–90°	733 lm	3.8%
Back Light	9,862 lm	51.2%
0°–30°	1,030 lm	5.4%
30°–60°	3,813 lm	19.8%
60°–80°	4,421 lm	23.0%
80°–90°	598 lm	3.1%
Up Light	0 lm	0.0%
90°–100°	0 lm	0.0%
100°–180°	0 lm	0.0%

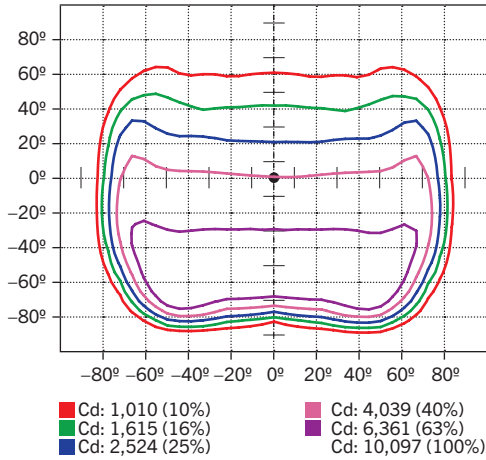
BUG* Rating	
Asymmetrical Luminaire Types	
Type I, II, III, IV	B4 U0 G4
Quadrilateral Symmetrical Luminaire Types	
Type II	B4 U0 G4

* Backlight, Uplight, Glare

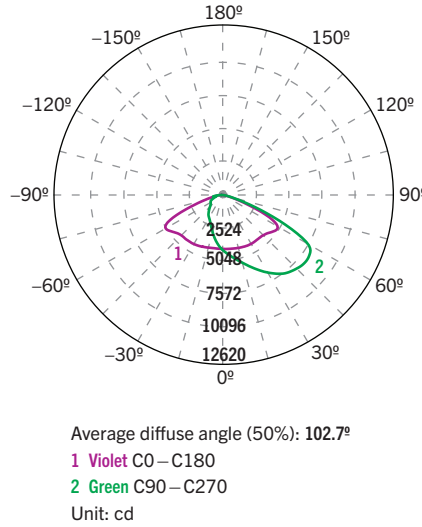
PROJECT	
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PHOTOMETRIC SPECIFICATIONS (TYPE 4 [IV])

ISOCANDELA PLOT



LUMINOUS INTENSITY DISTRIBUTION



FLUX DISTRIBUTION

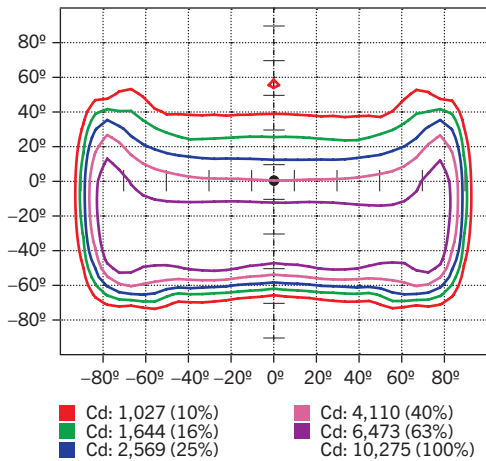
Zone	Lumens	% Luminaire
Forward Light	14,983 lm	76.1%
0°–30°	2,124 lm	10.8%
30°–60°	7,670 lm	39.0%
60°–80°	4,963 lm	25.2%
80°–90°	226 lm	1.1%
Back Light	4,707 lm	23.9%
0°–30°	1,258 lm	6.4%
30°–60°	2,314 lm	11.8%
60°–80°	1,030 lm	5.2%
80°–90°	105 lm	0.5%
Up Light	0 lm	0.0%
90°–100°	0 lm	0.0%
100°–180°	0 lm	0.0%

BUG* Rating	
Asymmetrical Luminaire Types	
Type I, II, III, IV	B3 U0 G3
Quadrilateral Symmetrical Luminaire Types	
Type V, Area Light	B3 U0 G3

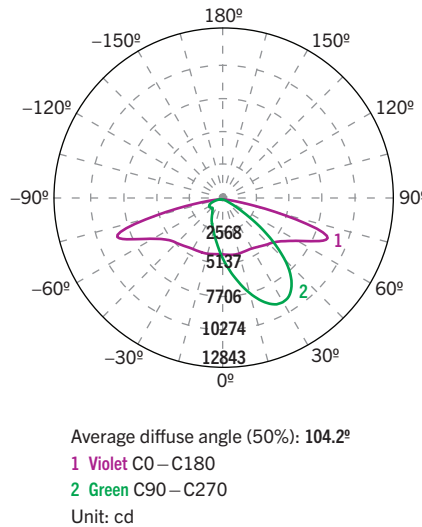
* Backlight, Uplight, Glare

PHOTOMETRIC SPECIFICATIONS (TYPE 2 [III])

ISOCANDELA PLOT



LUMINOUS INTENSITY DISTRIBUTION



FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
Forward Light	15,217 lm	77.4%
0°–30°	2,778 lm	14.1%
30°–60°	8,524 lm	43.3%
60°–80°	3,698 lm	18.8%
80°–90°	217 lm	1.1%
Back Light	4,446 lm	22.6%
0°–30°	1,126 lm	5.7%
30°–60°	1,921 lm	9.8%
60°–80°	1,318 lm	6.7%
80°–90°	82 lm	0.4%
Up Light	0 lm	0.0%
90°–100°	0 lm	0.0%
100°–180°	0 lm	0.0%

BUG* Rating	
Asymmetrical Luminaire Types	
Type I, II, III, IV	B3 U0 G3
Quadrilateral Symmetrical Luminaire Types	
Type V, Area Light	B3 U0 G2















* Backlight, Uplight, Glare

PROJECT	
TYPE	
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EPA SPECIFICATIONS

Medium-Size Fixture Housing

Conditions: Horizontal winds only for calculations. Worst case total projected area used for calculations. All drag coefficients are set as worst case 1.2. For details on exact EPA calculations and assumptions, please contact your sales representative.

EPA Calcs (1.2*ft^2 View)		Single Fixture	2 Fixtures at 90°	2 Fixtures at 180°	3 Fixtures at 90°	3 Fixtures at 120°	4 Fixtures at 90°	2 Fixtures Side-by-Side	3 Fixtures Side-by-Side	4 Fixtures Side-by-Side
Mounting Application	Fixture Position									
Adjustable Pole Mount 	Horizontal	0.50 sq. ft.	0.78 sq. ft.	1.01 sq. ft.	1.19 sq. ft.	1.28 sq. ft.	1.19 sq. ft.	0.74 sq. ft.	1.11 sq. ft.	1.48 sq. ft.
Adjustable Pole Mount 	45°	1.27 sq. ft.	1.73 sq. ft.	1.27 sq. ft.	2.20 sq. ft.	3.10 sq. ft.	2.20 sq. ft.	2.53 sq. ft.	3.80 sq. ft.	5.07 sq. ft.
Slip Fitter Mount 	Horizontal	0.48 sq. ft.	0.87 sq. ft.	0.97 sq. ft.	1.30 sq. ft.	1.37 sq. ft.	1.30 sq. ft.	0.86 sq. ft.	1.30 sq. ft.	1.73 sq. ft.
Slip Fitter Mount 	45°	1.34 sq. ft.	1.80 sq. ft.	1.34 sq. ft.	2.28 sq. ft.	3.06 sq. ft.	2.28 sq. ft.	2.67 sq. ft.	4.01 sq. ft.	5.35 sq. ft.
Slip Fitter Mount 	Vertical	1.76 sq. ft.	2.25 sq. ft.	1.76 sq. ft.	2.73 sq. ft.	2.94 sq. ft.	2.73 sq. ft.	3.53 sq. ft.	5.29 sq. ft.	7.06 sq. ft.

ORDERING INFORMATION

ORDER CODE	PACK QTY.	UPC	Easy Code
AL-LED-M1-3-140-840-NM	1	843654135564	XHQ-79
AL-LED-M1-3-140-850-NM	1	843654135571	PJX-68
AL-LED-M1-5-140-840-NM	1	843654135588	MIB-40
AL-LED-M1-5-140-850-NM	1	843654135595	AKM-55